

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	29	(US-20040015275-\$ or US-20030236598-\$ or US-20050065701-\$ or US-20040181321-\$ or US-20040049327-\$ or US-20030105560-\$ or US-20040227036-\$ or US-20070137514-\$ or US-20040267415-\$ or US-20040006413-\$ or US-20050024198-\$ or US-20030137446-\$).did. or (US-4208717-\$ or US-5487516-\$ or US-6135396-\$ or US-5501416-\$ or US-4279395-\$ or US-4217643-\$ or US-3700886-\$ or US-6957131-\$ or US-5995881-\$ or US-5978718-\$ or US-5398894-\$ or US-5330136-\$ or US-6535143-\$ or US-6580976-\$ or US-5437422-\$ or US-5541516-\$ or US-6349116-\$).did.	US-PGPUB; USPAT	OR	ON	2010/01/11 13:01
L2	4	1 and beacon	US-PGPUB; USPAT	OR	ON	2010/01/11 13:01
L3	7	"562558".ap.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2010/01/11 13:31
L4	6	("2004/0006413").URPN.	USPAT	OR	ON	2010/01/11 14:37
L5	1	4 AND (BEACON)	USPAT	OR	ON	2010/01/11 14:38
L6	506456	(kim).in. or (shalom or koninklijke).as.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2010/01/11 14:39
L7	49	6 AND TRAIN AND BEACON	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2010/01/11 14:39
L8	38	6 AND TRAIN AND BEACON and frequenc\$4	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2010/01/11 14:39

L9	5	8 and (frequenc\$4 with select\$4)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2010/01/11 14:40
S1	4	RAILS DE WITH EQUIPMENT	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 13:02
S2	70	balise	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 13:02
S3	23355	(railroad or locomotive or train) same (processor or ecu or controller)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 13:03
S4	290	wayside with equipment	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 13:03
S5	50	S3 and ((processor or ecu or controller) same ((detect\$4 or sens\$4) same (((speed or velocity) and brak\$4)) same display \$4))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 13:06
S6	1	S5 and atp and atps	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 13:06
S7	12	S5 and ((transmit\$ or communicat\$4) same ((data or information) same (central\$4)))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 13:09
S8	852	S3 and ((onboard or on-board) with (processor or ecu or controller))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 13:12
S9	17	S3 and (((onboard or on-board) with (processor or ecu or controller)) same (automatic\$ with (brak\$ or stop\$4)))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 13:13
S10	2	S9 and (display\$4 with speed)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 13:14
S11	576	S3 and (wayside or balise or (ground with equipment))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 13:22

S12	30	S11 and ((railroad or locomotive or train) same ((detect\$4 or sens\$4) same (speed same axle)))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 13:23
S13	127	S3 and (narrow with space)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 13:39
S14	8	S3 and ((narrow with space) with communication)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 13:39
S15	1088	(railroad or locomotive or train) same (wayside or (ground with equipment) or balise)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 14:15
S16	223	S15 and gps	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:04
S17	85	S16 and (automatic\$4 with (brak\$4 or decelerat \$4))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:04
S18	23	S16 and ((automatic\$4 with (brak\$4 or decelerat \$4)) same (wayside or balise or (ground with equipment)))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:05
S19	78	S16 and ((track or block) with occup\$)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:15
S20	19	S19 and ((automatic\$4 with (brak\$4 or decelerat \$4)) same (wayside or balise or (ground with equipment)))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:16
S21	2	"5398894".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:17
S22	2	"4711478".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:17
S23	2	"5330136".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:18

S24	5	"narrow space communication"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:37
S25	8	balise and railroad	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 16:15
S26	26	balise and (railroad or train)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 16:15
S27	32	(US-20040015275-\$ or US-20030236598-\$ or US-20070216771-\$ or US-20050065701-\$ or US-20040181321-\$ or US-20040049327-\$ or US-20030105560-\$ or US-20040227036-\$ or US-20070137514-\$ or US-20040267415-\$ or US-20060253234-\$ or US-20040006413-\$ or US-20040102877-\$ or US-20050068184-\$ or US-20050085961-\$ or US-20060041341-\$).did. or (US-4208717-\$ or US-5487516-\$ or US-6823242-\$ or US-6135396-\$ or US-5501416-\$ or US-4279395-\$ or US-4217643-\$ or US-3892377-\$ or US-3884437-\$ or US-4107253-\$ or US-3700886-\$ or US-6957131-\$ or US-5995881-\$ or US-5978718-\$ or US-5398894-\$ or US-5330136-\$).did.	US-PGPUB; USPAT	OR	ON	2009/01/16 16:16
S28	4	S27 and balise	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 16:16
S29	8	balise and atp	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 16:19
S30	158	(transponder same (coil same (oscillator)))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 16:32

S31	99	S30 and resona\$4	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 16:32
S32	82	S30 and (resona\$4 with frequency)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 16:32
S33	33	S32 and vehicle	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 17:00
S34	5	S33 and (discriminat\$4 with frequency)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 17:06
S35	35	(US-20040015275-\$ or US- 20030236598-\$ or US- 20070216771-\$ or US- 20050065701-\$ or US- 20040181321-\$ or US- 20040049327-\$ or US- 20030105560-\$ or US- 20040227036-\$ or US- 20070137514-\$ or US- 20040267415-\$ or US- 20060253234-\$ or US- 20040006413-\$ or US- 20040102877-\$ or US- 20050068184-\$ or US- 20050085961-\$ or US- 20060041341-\$ or US- 20050024198-\$ or US- 20030137446-\$).did. or (US-4208717-\$ or US- 5487516-\$ or US-6823242- \$ or US-6135396-\$ or US- 5501416-\$ or US-4279395- \$ or US-4217643-\$ or US- 3892377-\$ or US-3884437- \$ or US-4107253-\$ or US- 3700886-\$ or US-6957131- \$ or US-5995881-\$ or US- 5978718-\$ or US-5398894- \$ or US-5330136-\$ or US- 6535143-\$).did.	US-PGPUB; USPAT	OR	ON	2009/01/16 17:08
S36	2	S35 and (balise and (cod \$4 or variable))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 17:09
S37	2	S35 and (balise and (cod \$4 or recod\$4 or variable))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 17:10

S38	1	S35 and (balise and international)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/16 17:13
S39	35	(US-20040015275-\$ or US-20030236598-\$ or US-20070216771-\$ or US-20050065701-\$ or US-20040181321-\$ or US-20040049327-\$ or US-20030105560-\$ or US-20040227036-\$ or US-20070137514-\$ or US-20040267415-\$ or US-20060253234-\$ or US-20040006413-\$ or US-20040102877-\$ or US-20050068184-\$ or US-20050085961-\$ or US-20060041341-\$ or US-20050024198-\$ or US-20030137446-\$).did. or (US-4208717-\$ or US-5487516-\$ or US-6823242-\$ or US-6135396-\$ or US-5501416-\$ or US-4279395-\$ or US-4217643-\$ or US-3892377-\$ or US-3884437-\$ or US-4107253-\$ or US-3700886-\$ or US-6957131-\$ or US-5995881-\$ or US-5978718-\$ or US-5398894-\$ or US-5330136-\$ or US-6535143-\$).did.	US-PGPUB; USPAT	OR	ON	2009/01/20 13:33
S40	3	S39 and coil and oscillator	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/20 13:33
S41	7	"562558".ap.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/20 13:45
S42	2	S39 and beacon	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/20 13:47
S43	0	transponder same clock	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/20 13:50
S44	21	S39 and (alert\$4 or alarm\$4 or caution\$4 or warn\$4)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/20 14:01

S45	10	S39 and ((alert\$4 or alarm \$4 or caution\$4 or warn \$4) with (sound or aural or aud\$ or voice))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/20 14:01
S46	0	("2004/0267415").URPN.	USPAT	OR	ON	2009/01/20 15:08
S47	7	"855647".AP.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/01/20 15:08
S48	5	("5437422"   "5757291"   "5969643"   "6125311"   "6580976").PN. OR ("7089093").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/20 15:08
S49	7	"562558".ap.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 09:47
S50	51	"click generator"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 11:10
S51	9	"click generator" same frequency	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 11:10
S52	300	(select\$4 with frequency with (optim\$3 or best) with (data or information) with (transmit\$4 or transmission))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 11:19
S53	1	((select\$4 with frequency with (optim\$3 or best) with (data or information) with (transmit\$4 or transmission)) same (transponder or transceiver))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 11:20
S54	1	((select\$4 with frequenc\$3 with (optim\$3 or best) with (data or information) with (transmit\$4 or transmission)) same (transponder or transceiver))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 11:21
S55	4	((select\$4 with frequenc\$3 with (optim\$3 or best) with (transmit\$4 or transmission)) same (transponder or transceiver))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 11:22

S56	183	"narrow space" with data	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 11:29
S57	9	"narrow space" with data with communications	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 11:30
S58	9	"narrow space" with data with communication	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 11:30
S59	159	"narrow space" with communications	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 11:41
S60	9	("narrow space" with communications) same frequency	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 11:42
S61	31518	(fsk or "amplitude shift keying" or psk)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:04
S62	16721	((fsk or "amplitude shift keying" or psk) same frequenc\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:04
S63	9094	((fsk or "amplitude shift keying" or psk) same frequenc\$3) same data)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:04
S64	6237	(((((fsk or "amplitude shift keying" or psk) same frequenc\$3) same data) same (transmit\$4 or transmission))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:05
S65	266	(((((fsk or "amplitude shift keying" or psk) same frequenc\$3) same data) same (transmit\$4 or transmission)) same (transponder or transceiver))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:05
S66	191	(((((fsk or "amplitude shift keying" or psk) with frequenc\$3) same data) same (transmit\$4 or transmission)) same (transponder or transceiver))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:05



S67	89	(((((fsk or "amplitude shift keying" or psk) with frequenc\$3) with data) same (transmit\$4 or transmission)) same (transponder or transceiver))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:05
S68	19	(((((fsk or "amplitude shift keying" or psk) with frequenc\$3) with data) same (transmit\$4 or transmission)) same (transponder or transceiver)) same time)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:08
S69	5213	"shift keying" with schem \$4	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:33
S70	327	"shift keying" with schem \$4 with select\$4	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:34
S71	1	"shift keying" with schem \$4 with select\$4 with (amount or data) with size	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:34
S72	1	"shift keying" with schem \$4 with select\$4 with (amount or size) with data	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:35
S73	2	"shift keying" with schem \$4 with select\$4 with (amount or size)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:36
S74	11	"shift keying" with schem \$4 with select\$4 with time	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:36
S75	39	(US-20040015275-\$ or US-20030236598-\$ or US-20070216771-\$ or US-20050065701-\$ or US-20040181321-\$ or US-20040049327-\$ or US-20030105560-\$ or US-20040227036-\$ or US-20070137514-\$ or US-20040267415-\$ or US-20060253234-\$ or US-20040006413-\$ or US-20040102877-\$ or US-20050068184-\$ or US-20050085961-\$ or US-20060041341-\$ or US-	US-PGPUB; USPAT	OR	ON	2009/07/30 13:41

		20050024198-\$ or US-20030137446-\$).did. or (US-4208717-\$ or US-5487516-\$ or US-6823242-\$ or US-6135396-\$ or US-5501416-\$ or US-4279395-\$ or US-4217643-\$ or US-3892377-\$ or US-3884437-\$ or US-4107253-\$ or US-3700886-\$ or US-6957131-\$ or US-5995881-\$ or US-5978718-\$ or US-5398894-\$ or US-5330136-\$ or US-6535143-\$ or US-6580976-\$ or US-5437422-\$ or US-5541516-\$ or US-6349116-\$).did.				
S76	23	S75 and frequenc\$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:41
S77	5	S76 and oscillat\$4	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:44
S78	1	S77 and (shift\$4 with key \$4)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:46
S79	653	transponder and ((high with frequency) with time)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:58
S80	69	S79 and coil and oscillator	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:59
S81	1	S80 and wayside	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/07/30 13:59
S82	67	(click near generator)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/08/03 08:36
S83	7	S82 and train	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/08/03 08:36
S84	7	"562558".ap.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/08/03 08:38

S85	485422	((kim).in. or (shalom or koninklijke).as.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/08/03 08:46
S86	20	S85 and train and transponder	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/08/03 08:46

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